

CHANNEL SURVEY

1. Sounded 20 November 2021 by Prairie Engineers, P.C.
2. Horizontal Datum NAD83 Missouri East, Vertical Datum NAVD88
3. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-1-12.
4. Depths shown are below LWRP_14(88)

Glen Park Lt. (156.1)

FIG 4s

156

2

2

2

2

2

0

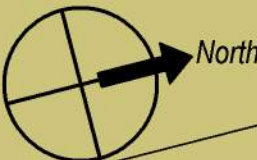
0

< -14.00

-14.00

-12.00

>= -9.00



Scale: 1 Inch = 800.00 Feet

500 1000 2000 3000 4000 Feet

Preliminary

11/24/2021 5:40:27 PM

20 November, 2021
INTERPOLATED WATER SURFACE ELEVATIONS AND RIVER GAGE STATIONS
NAVD88

MILE	LWRP_14	WS 1400	WS 1700	MP DIFF 1400	MP DIFF 1700
St. Louis					
180.0		386.6	386.5		
158.0	364.1	376.0	376.0	11.9	12.0
157.0	363.7	375.5	375.6	11.9	11.9
156.0	363.3	375.0	375.1	11.8	11.8
155.0	362.8	374.6	374.6	11.8	11.8
154.0	362.4	374.1	374.1	11.7	11.8
153.0	361.9	373.6	373.7	11.7	11.7
152.0	361.5	373.1	373.2	11.6	11.7
Herculaneum					
151.9		373.1	373.1		
151.0	361.1	372.6	372.6	11.5	11.6
150.0	360.7	372.0	372.1	11.4	11.4
Chester					
109.9		350.5	350.4		



ST. LOUIS DIST

DATES OF SURVEY:
23 NOVEMBER, 2021

FILE NO.:
REQUEST NO.:

SCALE:
ONE INCH = 800 FEET

FIELD BOOKS:
:

Approved: Ahmedno Nkem
CHIEF OF SURVEY

Approved: Jarrett Langer
CIVIL ENGINEERING TECHNICIAN

Approved: Jarrett Langer
ASST CHIEF OF SURVEY

Approved: Darren Forcy
CHIEF OF SURVEY

Date: 23 NOVEMBER 2021

U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

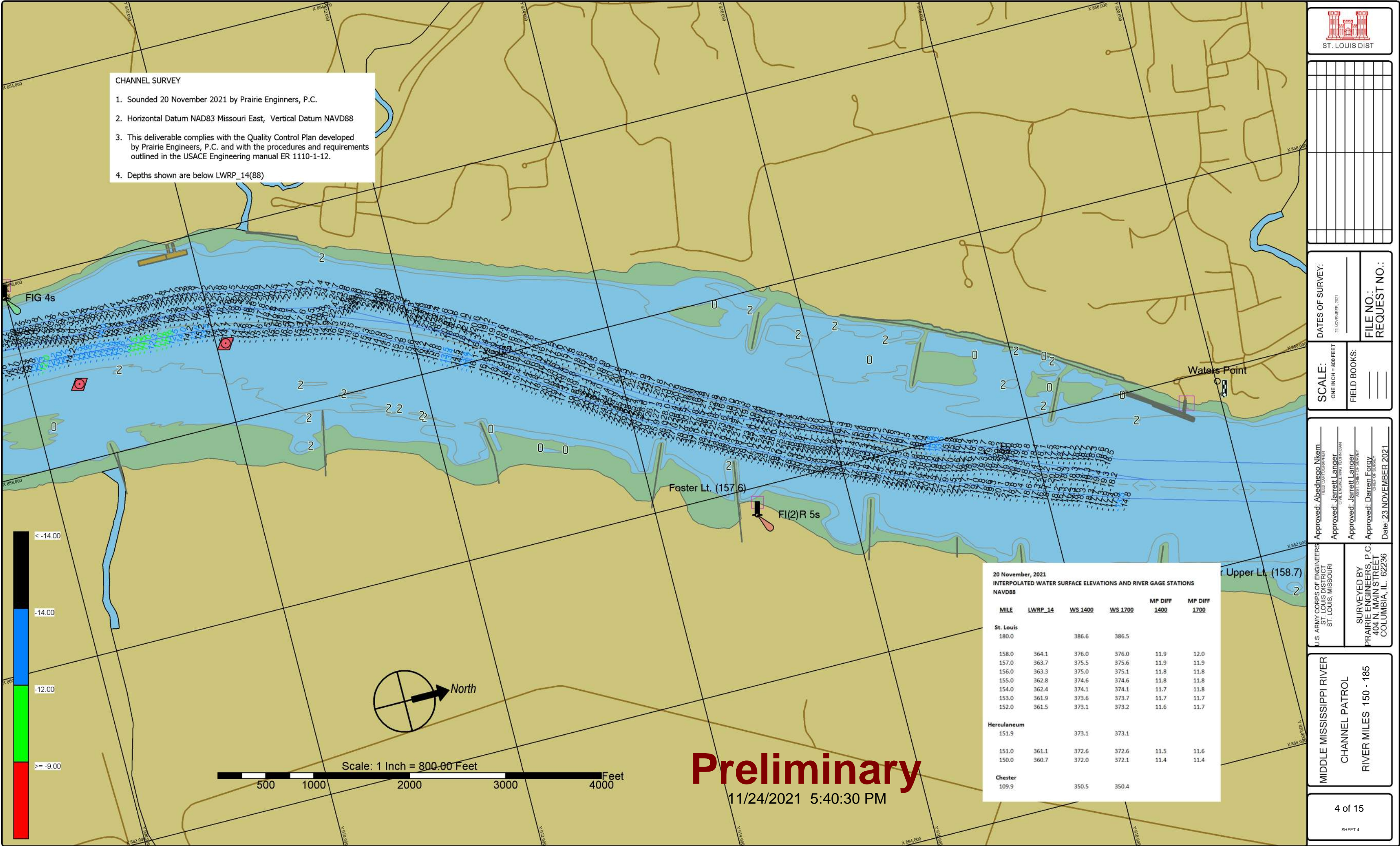
MIDDLE MISSISSIPPI RIVER
CHANNEL PATROL

RIVER MILES 150 - 185

3 of 15

SHEET 3

- CHANNEL SURVEY
1. Sounded 20 November 2021 by Prairie Engineers, P.C.
 2. Horizontal Datum NAD83 Missouri East, Vertical Datum NAVD88
 3. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-1-12.
 4. Depths shown are below LWRP_14(88)



20 November, 2021
INTERPOLATED WATER SURFACE ELEVATIONS AND RIVER GAGE STATIONS
NAVD88

MILE	LWRP_14	WS 1400	WS 1700	MP DIFF 1400	MP DIFF 1700
St. Louis					
180.0		386.6	386.5		
158.0	364.1	376.0	376.0	11.9	12.0
157.0	363.7	375.5	375.6	11.9	11.9
156.0	363.3	375.0	375.1	11.8	11.8
155.0	362.8	374.6	374.6	11.8	11.8
154.0	362.4	374.1	374.1	11.7	11.8
153.0	361.9	373.6	373.7	11.7	11.7
152.0	361.5	373.1	373.2	11.6	11.7
Herculaneum					
151.9		373.1	373.1		
151.0	361.1	372.6	372.6	11.5	11.6
150.0	360.7	372.0	372.1	11.4	11.4
Chester					
109.9		350.5	350.4		

Preliminary
11/24/2021 5:40:30 PM

ST. LOUIS DIST

DATES OF SURVEY: 23 NOVEMBER, 2021		FILE NO.: REQUEST NO.:
SCALE: ONE INCH = 800 FEET	FIELD BOOKS:	
Approved: Aledhago Nkem Approved: Jarrett Langer Approved: Jarrett Langer Approved: Darren Forcy Date: 23 NOVEMBER 2021		
U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI		
SURVEYED BY PRAIRIE ENGINEERS, P.C. 404 N. MAIN STREET COLUMBIA, IL 62236		
MIDDLE MISSISSIPPI RIVER CHANNEL PATROL RIVER MILES 150 - 185		
4 of 15 SHEET 4		

CHANNEL SURVEY

1. Sounded 17 and 19 of November 2021 by Prairie Enginners, P.C.
2. Horizontal Datum NAD83 Missouri East, Vertical Datum NAVD88
3. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-1-12.
4. Depths shown are below LWRP_14(88)

13 November, 2021
INTERPOLATED WATER SURFACE ELEVATIONS AND RIVER GAGE STATIONS
NAVD88

MPLE	MP	WS.100	WS.1500	MP DIFF 100	MP DIFF 1500
105.1	376.4	387.6	387.5		
195.0	376.4	387.6	387.5	11.2	11.1
194.0	376.4	387.3	387.2	11.0	10.8
193.0	376.4	387.1	386.9	10.7	10.5
192.0	376.4	386.9	386.7	10.5	10.3
191.0	376.4	386.6	386.4	10.3	10.0
190.0	376.4	386.4	386.1	10.0	9.6

St. Louis	190.0	376.4	386.4	386.1		
190.0	376.4	386.4	386.1	10.0	9.6	
179.0	376.1	385.9	385.7	9.9	9.6	
178.0	375.7	385.5	385.2	9.7	9.5	
177.0	375.3	385.0	384.7	9.7	9.4	
176.0	374.7	384.6	384.3	9.8	9.5	
175.0	374.3	384.1	383.8	9.8	9.5	
174.0	373.7	383.6	383.4	9.9	9.6	
173.0	373.0	383.2	382.9	10.2	9.9	
172.0	372.2	382.7	382.4	10.5	10.2	
171.0	371.5	382.2	382.0	10.8	10.5	
170.0	370.7	381.6	381.5	11.0	10.8	
169.0	370.0	381.3	381.1	11.3	11.1	
168.0	369.2	380.9	380.6	11.6	11.4	
167.0	368.6	380.4	380.1	11.8	11.6	
166.0	368.3	379.9	379.7	11.6	11.4	
165.0	368.0	379.4	379.2	11.4	11.2	
164.0	367.5	379.0	378.8	11.5	11.2	
163.0	366.9	378.5	378.3	11.6	11.4	
162.0	366.3	378.1	377.8	11.7	11.5	
161.0	365.7	377.6	377.4	11.9	11.7	
160.0	365.1	377.1	376.9	12.0	11.8	
159.0	364.5	376.7	376.5	12.2	11.9	
158.0	364.1	376.2	376.0	12.1	11.9	
157.0	363.7	375.7	375.5	12.1	11.9	
156.0	363.3	375.3	375.1	12.0	11.8	
155.0	362.9	374.8	374.6	12.0	11.8	
154.0	362.4	374.3	374.2	12.0	11.8	
153.0	361.9	373.9	373.7	12.0	11.8	
152.0	361.5	373.4	373.2	11.9	11.7	

Herodotus						
151.9	361.5	373.4	373.2			
151.0	361.1	372.9	372.7	11.8	11.6	
150.0	360.7	372.4	372.2	11.7	11.5	
Chester						
103.9	340.32	351.28	351.2			

Chester	109.9	340.32	351.26	351.2		
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17 November, 2021
INTERPOLATED WATER SURFACE ELEVATIONS AND RIVER GAGE STATIONS
NAVD88

MPLE	MP	WS.1000	WS.1800	MP DIFF 1000	MP DIFF 1800
105.1	376.4	390.5	390.3		
195.0	376.4	390.4	390.3	14.1	13.9
194.0	376.4	390.2	390.0	13.8	13.6
193.0	376.4	389.9	389.7	13.6	13.4
192.0	376.4	389.7	389.5	13.3	13.1
191.0	376.4	389.4	389.2	13.1	12.8
190.0	376.4	389.2	389.0	12.8	12.6

St. Louis	190.0	376.4	389.2	389.0		
190.0	376.4	389.2	389.0	12.8	12.6	
179.0	376.1	388.7	388.5	12.6	12.4	
178.0	375.7	388.2	388.0	12.5	12.3	
177.0	375.3	387.8	387.6	12.5	12.3	
176.0	374.7	387.3	387.1	12.6	12.4	
175.0	374.3	386.8	386.7	12.5	12.4	
174.0	373.7	386.4	386.2	12.5	12.4	
173.0	373.0	385.9	385.7	12.9	12.8	
172.0	372.2	385.4	385.3	13.2	13.1	
171.0	371.5	385.0	384.8	13.5	13.3	
170.0	370.7	384.5	384.4	13.7	13.6	
169.0	370.0	384.0	383.9	14.0	13.9	
168.0	369.2	383.5	383.4	14.3	14.2	
167.0	368.6	383.1	383.0	14.5	14.4	
166.0	368.3	382.6	382.5	14.9	14.2	
165.0	368.0	382.1	382.0	14.1	14.0	
164.0	367.5	381.7	381.6	14.1	14.1	
163.0	366.9	381.2	381.1	14.3	14.2	
162.0	366.3	380.7	380.7	14.4	14.4	
161.0	365.7	380.3	380.2	14.6	14.5	
160.0	365.1	379.8	379.7	14.7	14.6	
159.0	364.5	379.3	379.3	14.8	14.8	
158.0	364.1	378.8	378.8	14.8	14.7	
157.0	363.7	378.4	378.4	14.7	14.7	
156.0	363.3	377.9	377.9	14.6	14.6	
155.0	362.9	377.4	377.4	14.6	14.7	
154.0	362.4	377.0	377.0	14.6	14.6	
153.0	361.9	376.5	376.5	14.6	14.6	
152.0	361.5	376.0	376.0	14.5	14.5	

Herculaneum					
151.9	361.5	376.0	376.0		
151.0	361.1	375.5	375.5	14.4	14.4
150.0	360.7	374.9	375.0	14.3	14.3
Chester					
109.9	340.32	353.39	353.32		

Chester	109.9	340.32	353.39	353.32		
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ST. LOUIS DIST

11/24/2021 5:40:37 PM

7 of 15

SHEET 7

Channel Survey

Channel Patrol

River Miles 150 - 185

Surveyed by

Prairie Engineers, P.C.

404 N. Main Street

Columbia, IL 62236

Approved: Jarrett Langer

Civil Engineering Technician

Approved: Jarrett Langer

Chief of Survey

Approved: Darren Forcy

Chief of Survey

Date: 19 NOVEMBER 2021

DATES OF SURVEY:

17 NOVEMBER, 2021

19 NOVEMBER, 2021

SCALE:

ONE INCH = 800 FEET

FIELD BOOKS:

FILE NO.:

REQUEST NO.:

U.S. ARMY CORPS OF ENGINEERS

ST. LOUIS DISTRICT

ST. LOUIS, MISSOURI

Channel Survey

Channel Patrol

River Miles 150 - 185

Surveyed by

Prairie Engineers, P.C.

404 N. Main Street

Columbia, IL 62236

Approved: Jarrett Langer

Civil Engineering Technician

Approved: Jarrett Langer

Chief of Survey

Approved: Darren Forcy

Chief of Survey

Date: 19 NOVEMBER 2021

DATES OF SURVEY:

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ST. LOUIS, MISSOURI

Channel Survey

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River Miles 150 - 185

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Civil Engineering Technician

Approved: Jarrett Langer

Chief of Survey

Approved: Darren Forcy

Chief of Survey

Date: 19 NOVEMBER 2021

DATES OF SURVEY:

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SCALE:

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REQUEST NO.:

U.S. ARMY CORPS OF ENGINEERS

ST. LOUIS DISTRICT

ST. LOUIS, MISSOURI

Channel Survey

Channel Patrol

River Miles 150 - 185

Surveyed by

Prairie Engineers, P.C.

404 N. Main Street

Columbia, IL 62236

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Civil Engineering Technician

Approved: Jarrett Langer

Chief of Survey

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Chief of Survey

Date: 19 NOVEMBER 2021

DATES OF SURVEY:

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SCALE:

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FIELD BOOKS:

FILE NO.:

REQUEST NO.:

U.S. ARMY CORPS OF ENGINEERS

ST. LOUIS DISTRICT

ST. LOUIS, MISSOURI

Channel Survey

Channel Patrol

River Miles 150 - 185

Surveyed by

Prairie Engineers, P.C.

404 N. Main Street

Columbia, IL 62236

Approved: Jarrett Langer

Civil Engineering Technician

Approved: Jarrett Langer

Chief of Survey

Approved: Darren Forcy

Chief of Survey

Date: 19 NOVEMBER 2021

DATES OF SURVEY:

17 NOVEMBER, 2021

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REQUEST NO.:

U.S. ARMY CORPS OF ENGINEERS

ST. LOUIS DISTRICT

ST. LOUIS, MISSOURI

Channel Survey

Channel Patrol

River Miles 150 - 185

Surveyed by

Prairie Engineers, P.C.

404 N. Main Street

Columbia, IL 62236

Approved: Jarrett Langer

Civil Engineering Technician

Approved: Jarrett Langer

Chief of Survey

Approved: Darren Forcy

Chief of Survey

Date: 19 NOVEMBER 2021

DATES OF SURVEY:

17 NOVEMBER, 2021

19 NOVEMBER, 2021

SCALE:

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FIELD BOOKS:

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U.S. ARMY CORPS OF ENGINEERS

ST. LOUIS DISTRICT

ST. LOUIS, MISSOURI

Channel Survey

Channel Patrol

River Miles 150 - 185

Surveyed by

Prairie Engineers, P.C.

404 N. Main Street

Columbia, IL 62236

Approved: Jarrett Langer

Civil Engineering Technician

Approved: Jarrett Langer

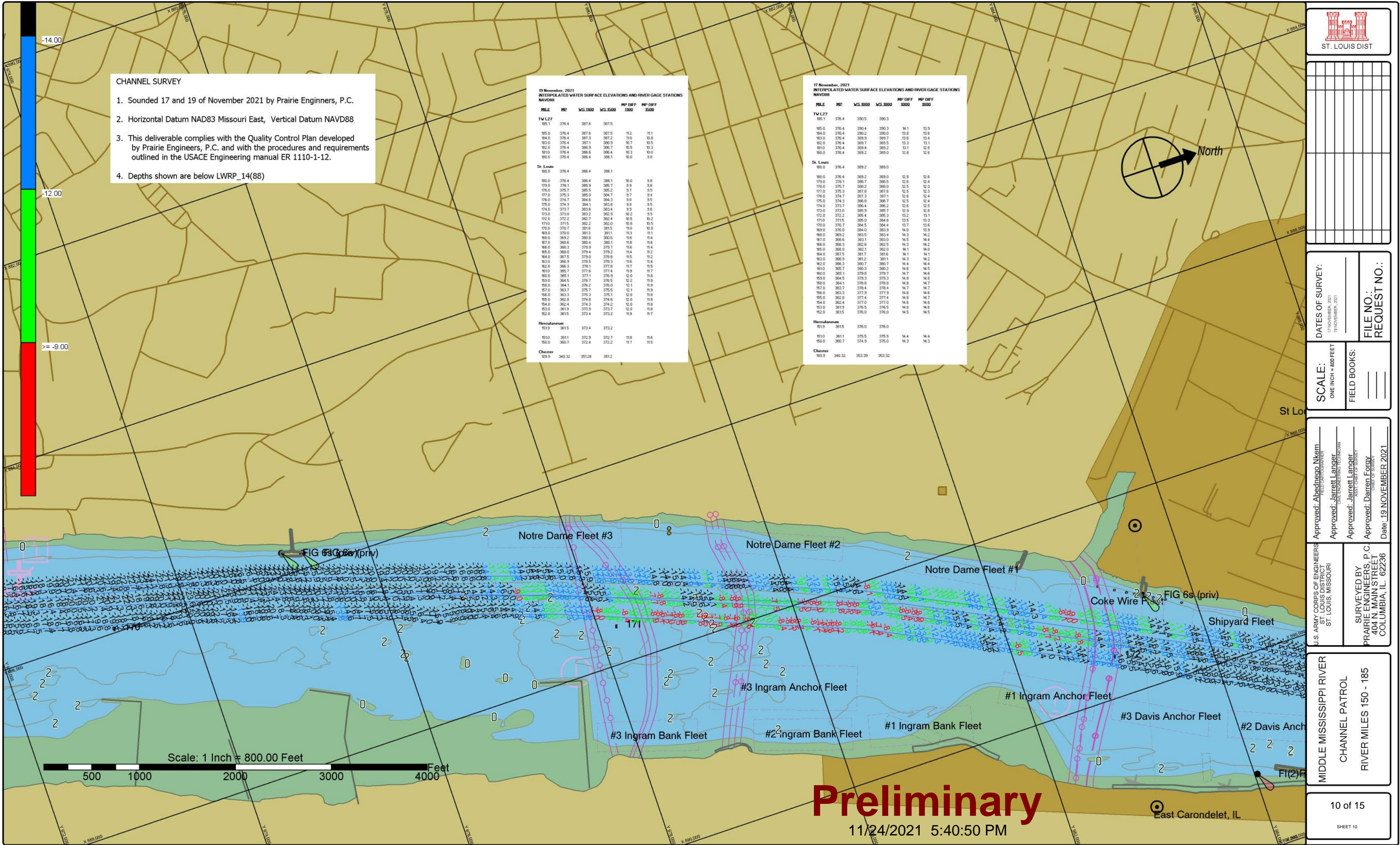
Chief of Survey

Approved: Darren Forcy

Chief of Survey

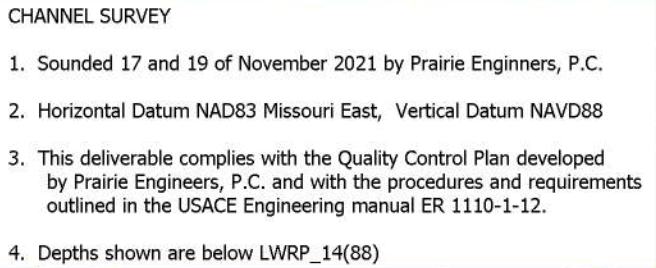
Date: 19 NOVEMBER 2021

DATES OF SURVEY:



ST. LOUIS DIST

DATES OF SURVEY: 17 NOVEMBER, 2021 19 NOVEMBER, 2021		FILE NO.: REQUEST NO.:
SCALE: ONE INCH = 800 FEET	FIELD BOOKS:	
Approved: Alednego Nkem ST. LOUIS DISTRICT ST. LOUIS, MISSOURI		SURVEYED BY PRAIRIE ENGINEERS, P.C. 404 N. MAIN STREET COLUMBIA, IL 62236
Approved: Jarrett Langer CIVIL ENGINEERING TECHNICIAN Approved: Jarrett Langer ASST. CHIEF OF SURVEY Approved: Darren Forcy CHIEF OF SURVEY Date: 19 NOVEMBER 2021		
MIDDLE MISSISSIPPI RIVER CHANNEL PATROL RIVER MILES 150 - 185		10 of 15 SHEET 10



17 INTERPOLATED, 2021 WATERSHED WATER SURFACE ELEVATIONS AND RIVER GAGE STATIONS NAVD83						
MI LE	MP	W2 MI	W3 MI	MP OFF	W3 OFF	MP OFF
TW 127						
85.1	376.4	390.5	390.3			
105.0	376.4	390.4	390.3	1.1	1.1	13.9
104.4	376.4	390.2	390.0	1.0	1.0	13.6
103.7	376.4	390.0	389.9	1.0	1.0	13.3
102.0	376.4	389.7	389.5	1.3	1.3	11.1
101.4	376.4	389.5	389.3	1.2	1.2	11.0
100.0	376.4	389.2	389.0	1.2	1.2	12.6
St. Louis						
100.0	376.4	389.2	389.0			
100.0	376.4	389.2	389.0	1.2	1.2	12.6
170.0	376.1	386.7	386.5	1.6	1.6	12.4
170.0	375.7	386.5	386.3	1.7	1.7	12.3
170.0	375.3	387.6	387.6	1.5	1.5	12.3
167.3	375.0	386.0	386.0	1.7	1.7	12.4
175.0	374.3	386.8	386.7	1.5	1.5	12.4
174.0	373.7	386.4	386.2	1.6	1.6	12.5
172.0	373.0	386.3	386.1	1.9	1.9	12.8
172.0	372.2	386.4	385.3	1.2	1.2	13.1
171.0	371.5	386.0	384.8	1.5	1.5	13.3
170.0	370.7	384.5	384.4	1.7	1.7	13.6
169.0	370.0	384.0	383.9	1.8	1.8	13.9
167.0	369.3	383.5	383.4	1.9	1.9	14.2
167.0	368.6	383.1	383.0	1.5	1.5	14.4
165.0	367.9	382.6	382.5	1.6	1.6	14.3
165.0	366.0	382.1	382.0	1.1	1.1	14.0
164.0	365.7	381.7	381.6	1.1	1.1	14.1
162.0	364.9	381.2	381.0	1.6	1.6	14.5
162.0	366.3	380.7	380.7	1.4	1.4	14.4
160.0	365.5	380.3	380.2	1.6	1.6	14.5
160.0	365.1	379.8	379.7	1.7	1.7	14.6
159.0	364.5	379.3	379.3	1.8	1.8	14.6
158.0	364.1	378.8	378.8	1.9	1.9	14.7
157.0	363.7	378.4	378.4	1.7	1.7	14.7
156.0	363.3	377.9	377.9	1.6	1.6	14.7
155.0	362.9	377.4	377.4	1.4	1.4	14.7
154.0	362.4	377.0	377.0	1.6	1.6	14.6
153.0	361.9	376.5	376.5	1.6	1.6	14.6
152.0	361.5	376.0	376.0	1.5	1.5	14.5
Herculano						
151.0	361.5	376.0	376.0			
151.0	361.1	375.5	375.5	1.4	1.4	14.3
150.0	360.7	374.5	375.0	1.3	1.3	14.4
Chesler						
103.3	340.32	363.38	353.32			

Preliminary

11 of 15

